

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/000301

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01N33/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SIEM-FUNG D J ET AL: "THE EFFECT OF TEMPERATURE ON VERATRIDINE ACTION IN SQUID GIANT AXONS" BIOCHIMICA ET BIOPHYSICA ACTA, vol. 728, no. 3, 1983, pages 305-310, XP008045560 ISSN: 0006-3002 the whole document figure 1 tables 1,2 ----- -/--	1-31

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

13 April 2005

Date of mailing of the international search report

11/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Jenkins, G

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KIM C S ET AL: "Voltage-dependent calcium channels in ventricular cells of rainbow trout: effect of temperature changes in vitro." AMERICAN JOURNAL OF PHYSIOLOGY. REGULATORY, INTEGRATIVE AND COMPARATIVE PHYSIOLOGY. JUN 2000, vol. 278, no. 6, June 2000 (2000-06), pages R1524-R1534, XP002324413 ISSN: 0363-6119 the whole document figures 9,10; tables 1,2 -----	1-31
X	MITSUIYE TAMOTSU ET AL: "Temperature dependence of the inward rectifier K ⁺ channel gating in guinea-pig ventricular cells" JAPANESE JOURNAL OF PHYSIOLOGY, vol. 47, no. 1, 1997, pages 73-79, XP002324414 ISSN: 0021-521X the whole document figure 2 -----	1-31
X	CHUNG SHIN-HO ET AL: "Changes in the kinetics and conductance of N-methyl-D-aspartate (NMDA)-receptor activated single channels with temperature" NEUROSCIENCE LETTERS, vol. 187, no. 3, 1995, pages 181-184, XP002324415 ISSN: 0304-3940 the whole document figure 1 -----	1-31
X	DING J P ET AL: "Modulation of mechanosensitive calcium-selective cation channels by temperature." THE PLANT JOURNAL : FOR CELL AND MOLECULAR BIOLOGY. MAY 1993, vol. 3, no. 5, May 1993 (1993-05), pages 713-720, XP002324416 ISSN: 0960-7412 the whole document figure 1 page 713, column 2, paragraph 3 ----- -/-	1-31

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	NETZER RAINER ET AL: "Screening lead compounds for QT interval prolongation" DRUG DISCOVERY TODAY, ELSEVIER SCIENCE LTD, GB, vol. 6, no. 2, January 2001 (2001-01), pages 78-84, XP002198162 ISSN: 1359-6446 the whole document page 82 -----	1-31
A	NUMANN R ET AL: "High-throughput screening strategies for cardiac ion channels" TRENDS IN CARDIOVASCULAR MEDICINE 2001 UNITED STATES, vol. 11, no. 2, 2001, pages 54-59, XP002324417 ISSN: 1050-1738 the whole document page 56, column 2 - page 57, column 2 -----	1-31
A	WO 02/31508 A (BRISTOL-MYERS SQUIBB COMPANY; WEAVER, CHARLES, DAVID) 18 April 2002 (2002-04-18) the whole document claims 27-33 -----	1-31

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 1-31 relate to a method of surgery and a method of diagnosis practised on the human body, the claims have been searched as if the step "providing a sample comprising ion channels" was performed prior to the start of the claimed methods.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0231508	A	18-04-2002	AU 1535002 A	22-04-2002
			CA 2425806 A1	18-04-2002
			EP 1327150 A1	16-07-2003
			JP 2004530100 T	30-09-2004
			WO 0231508 A1	18-04-2002
			US 2002168625 A1	14-11-2002
